

CLAIMS

1. A fluid control device comprising a metal body having a fluid inlet channel, a fluid outlet channel and a communication channel for holding the two channels in communication, and a metal slide member vertically movable in a vertical passage including the communication channel for closing or opening the communication channel with an end portion thereof, the fluid control device being characterized in that at least the end portion of the slide member is made of an alloy comprising, in % by weight, 0.001 to 0.01% of C, up to 5% of Si, up to 2% of Mn, up to 0.03% of P, up to 100 ppm of S, up to 50 ppm of O, 18 to 25% of Cr, 15 to 25% of Ni, 4.5 to 7.0% of Mo, 0.5 to 3.0% of Cu, 0.1 to 0.3% of N, and the balance substantially Fe and other inevitable impurities.

2. A fluid control device according to claim 1 wherein the slide member is a stem having one conical end portion tapered toward an extremity thereof, the stem being made of said alloy in its entirety and being provided with a handle attached to the other end portion thereof, the stem having an externally threaded intermediate portion screwed in an internally threaded portion formed in the vertical passage.

3. A fluid control device according to claim 1 wherein the slide member comprises a solid cylindrical stem and a conical disk fitted around one end of the stem and tapered toward an outer end thereof, the disk being made of said alloy, the stem being provided with a handle attached to the other end thereof, the stem having an externally threaded intermediate portion screwed in an internally threaded portion

formed in the vertical passage.